

### ABSTRACT OF THE DISCLOSURE

The present invention relates to genes which code for glycosyl hydrolases having an HCA score with the iota-carrageenase of *Alteromonas fortis* which is greater than or equal to 65% over the domain extending between amino acids 164 and 311 of the protein sequence SEQ ID No. 2 of said iota-carrageenase, and to genes which code for glycosyl hydrolases having an HCA score with the kappa-carrageenase of *Alteromonas carrageenovora* which is greater than or equal to 75% over the domain extending between amino acids 117 and 262 of the protein sequence SEQ ID No. 6 of said kappa-carrageenase.